322 Terminal Operations and Intermodal Ramp Activity

Functional Group ID=SO

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Terminal Operations and Intermodal Ramp Activity Transaction Set (322) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide all the information necessary for a terminal operation, port authority or intermodal ramp to communicate terminal and intermodal ramp activities (e.g., "ingates" and "outgates") to authorized parties to a shipment.

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
3	010	ST	Transaction Set Header	M	1		
Not Used	015	ZC1	Beginning Segment for Data Correction or Change	O	1		
4	016	Q5	Status Details	M	1		
			LOOP ID - N7			1000	
7	020	N7	Equipment Details	M	1		
Not Used	030	V4	Cargo Location Reference	O	1		
Not Used	040	DTM	Date/Time Reference	O	2		
Not Used	050	M7	Seal Numbers	O	5		
Not Used	060	W09	Equipment and Temperature	O	1		
10	070	W2	Equipment Identification	O	1		
Not Used	080	NA	Cross-Reference Equipment	O	30		
Not Used	085	GR5	Loading Details	O	10		
Not Used	100	Y7	Priority	O	1		
Not Used	110	V1	Vessel Identification	O	1		
			LOOP ID - R4			20	
12	120	R4	Port or Terminal	M	1		
Not Used	130	DTM	Date/Time Reference	O	15		
14	140	H3	Special Handling Instructions	O	6		
			LOOP ID - N1			10	
15	150	N1	Name	O	1		
Not Used	153	N3	Address Information	O	2		
16	156	N4	Geographic Location	O	1		
Not Used	160	K1	Remarks	O	2		
17	170	N9	Reference Identification	O	10		
			LOOP ID - L0			999	
19	180	L0	Line Item - Quantity and Weight	O	1		
21	190	L5	Description, Marks and Numbers	O	1		
23	200	H1	Hazardous Material	O	3		

Not Used	210	L3	Total Weight and Charges	O	2
24	220	SE	Transaction Set Trailer	M	1

Segment:	**ST** **Transaction Set Header**	
Position:	010	
Loop:		
Level:		
Usage:	Mandatory	
Max Use:	1	
Purpose:	To indicate the start of a transaction set and to assign a control number	
Syntax Notes:		
Semantic Notes:	1	The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	ST01	143	**Transaction Set Identifier Code**	**M ID 3/3**
			Code uniquely identifying a Transaction Set	
			322 Terminal Operations and Intermodal Ramp Activity	
M	ST02	329	**Transaction Set Control Number**	**M AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

Segment:	**Q5** Status Details	
Position:	016	
Loop:		
Level:		
Usage:	Mandatory	
Max Use:	1	
Purpose:	To specify the status of the shipment in terms of dates, time, reference numbers, and location	

Syntax Notes:	**1**	If either Q503 or Q504 is present, then the other is required.
	2	If Q507 is present, then Q506 is required.
	3	If either Q511 or Q512 is present, then the other is required.
	4	If Q513 is present, then Q512 is required.
	5	If either Q514 or Q515 is present, then the other is required.
	6	If Q516 is present, then Q515 is required.
Semantic Notes:	**1**	Q502 is the date of the status reported in Q501.
	2	Q503 is the time of the status reported in Q501.
	3	Q513 is the direction (north or south) of the equator for the latitude given in Q512. If Q513 is not used, north is assumed.
	4	If Q516 is not used, west is assumed. Q516 is the direction (east or west) of the Greenwich Meridian for the longitude given in Q515.
	5	Q517 is the percent of the capacity of the trailer utilized as identified in Q510.
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	Q501	157	**Shipment Status Code**	O ID 1/2

Code indicating the status of a shipment

A	Arrived
AL	Loaded on Rail
AR	Rail Arrival at Destination Intermodal Ramp
CI	Passing
CT	Customs Released
D	Completed Unloading at Delivery Location
J	Delivered to Connecting Line
K	Arrived at Customs
L	Loading
P	Departed Terminal Location
R	Received from Prior Carrier
RL	Rail Departure from Origin Intermodal Ramp
SD	Shipment Delayed
T	At Terminal; Intra-Terminal Movement

			X	Removed from Customer Dock or Siding
			Z	Actually Placed

	Q502	373	**Date**	**O**	**DT 8/8**

Date expressed as CCYYMMDD

	Q503	337	**Time**	**X**	**TM 4/8**

Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Must Use	Q504	623	**Time Code**	**X**	**ID 2/2**

Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

			ET	Eastern Time

Not Used	Q505	641	**Status Reason Code**	**O**	**ID 3/3**

Code indicating the status reason

Refer to 004010 Data Element Dictionary for acceptable code values.

	Q506	19	**City Name**	**X**	**AN 2/30**

Free-form text for city name

	Q507	156	**State or Province Code**	**O**	**ID 2/2**

Code (Standard State/Province) as defined by appropriate government agency

Refer to 004010 Data Element Dictionary for acceptable code values.

	Q508	26	**Country Code**	**O**	**ID 2/3**

Code identifying the country

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	Q509	206	**Equipment Initial**	**O**	**AN 1/4**

Prefix or alphabetic part of an equipment unit's identifying number

Not Used	Q510	207	**Equipment Number**	**O**	**AN 1/10**

Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)

Not Used	Q511	128	**Reference Identification Qualifier**	**X**	**ID 2/3**

Code qualifying the Reference Identification

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	Q512	127	**Reference Identification**	**X**	**AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Not Used	Q513	1280	**Direction Identifier Code**	**O**	**ID 1/1**

Code identifying geographic direction

Refer to 004010 Data Element Dictionary for acceptable code values.

| **Not Used** | **Q514** | **128** | **Reference Identification Qualifier** | **X** | **ID 2/3** |

Code qualifying the Reference Identification

Refer to 004010 Data Element Dictionary for acceptable code values.

| **Not Used** | **Q515** | **127** | **Reference Identification** | **X** | **AN 1/30** |

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

| **Not Used** | **Q516** | **1280** | **Direction Identifier Code** | **O** | **ID 1/1** |

Code identifying geographic direction

Refer to 004010 Data Element Dictionary for acceptable code values.

| **Not Used** | **Q517** | **954** | **Percent** | **O** | **R 1/10** |

Percentage expressed as a decimal

| **Not Used** | **Q518** | **108** | **Pick-up or Delivery Code** | **O** | **ID 1/2** |

Specifies the location or type of pickup or delivery

Refer to 004010 Data Element Dictionary for acceptable code values.

Segment:	**N7** Equipment Details		
Position:	020		
Loop:	N7 Mandatory		
Level:			
Usage:	Mandatory		
Max Use:	1		
Purpose:	To identify the equipment		
Syntax Notes:	1	If either N703 or N704 is present, then the other is required.	
	2	If either N705 or N716 is present, then the other is required.	
	3	If either N708 or N709 is present, then the other is required.	
Semantic Notes:	1	N712 is the owner of the equipment.	
	2	N723 is the operator or carrier of the rights of the equipment.	
Comments:	1	N701 is mandatory for rail transactions.	
	2	N720 and N721 are expressed in inches.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N701	206	**Equipment Initial**	O AN 1/4
			Prefix or alphabetic part of an equipment unit's identifying number	
M	N702	207	**Equipment Number**	M AN 1/10
			Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	
	N703	81	**Weight**	X R 1/10
			Numeric value of weight	
	N704	187	**Weight Qualifier**	X ID 1/2
			Code defining the type of weight	
			G Gross Weight	
			N Actual Net Weight	
Not Used	N705	167	**Tare Weight**	X N0 3/8
			Weight of the equipment	
Not Used	N706	232	**Weight Allowance**	O N0 2/6
			Allowance made for increased weight due to such factors as snow	
Not Used	N707	205	**Dunnage**	O N0 1/6
			Weight of material used to protect lading (even bracings, false floors, etc.)	
Not Used	N708	183	**Volume**	X R 1/8
			Value of volumetric measure	
Not Used	N709	184	**Volume Unit Qualifier**	X ID 1/1
			Code identifying the volume unit	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	N710	102	**Ownership Code**	O ID 1/1
			Code indicating the relationship of equipment to carrier or ownership of	

equipment

Refer to 004010 Data Element Dictionary for acceptable code values.

	N711	**40**	**Equipment Description Code**	**O**	**ID 2/2**

Code identifying type of equipment used for shipment

CN	Container
ID	Idler Car
RR	Rail Car
TL	Trailer (not otherwise specified)

	N712	**140**	**Standard Carrier Alpha Code**	**O**	**ID 2/4**

Standard Carrier Alpha Code

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	**N713**	**319**	**Temperature Control**	**O**	**AN 3/6**

Free-form abbreviation of temperature range or flash-point temperature

Not Used	**N714**	**219**	**Position**	**O**	**AN 1/3**

Relative position of shipment in car, trailer, or container (mutually defined)

	N715	**567**	**Equipment Length**	**O**	**N0 4/5**

Length (in feet and inches) of equipment ordered or used to transport shipment (The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11)

Not Used	**N716**	**571**	**Tare Qualifier Code**	**X**	**ID 1/1**

Code identifying the type of tare

Refer to 004010 Data Element Dictionary for acceptable code values.

	N717	**188**	**Weight Unit Code**	**O**	**ID 1/1**

Code specifying the weight unit

L	Pounds

	N718	**761**	**Equipment Number Check Digit**	**O**	**N0 1/1**

Number which designates the check digit applied to a piece of equipment

Not Used	**N719**	**56**	**Type of Service Code**	**O**	**ID 2/2**

Code specifying extent of transportation service requested

Refer to 004010 Data Element Dictionary for acceptable code values.

	N720	**65**	**Height**	**O**	**R 1/8**

Vertical dimension of an object measured when the object is in the upright position

	N721	**189**	**Width**	**O**	**R 1/8**

Shorter measurement of the two horizontal dimensions measured with the object in the upright position

	N722	**24**	**Equipment Type**	**O**	**ID 4/4**

Code identifying equipment type

Refer to 004010 Data Element Dictionary for acceptable code values.

	N723	**140**	**Standard Carrier Alpha Code**	**O**	**ID 2/4**

Standard Carrier Alpha Code

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used **N724** **301** **Car Type Code** **O   ID 1/4**

Code specifying type of rail car or intermodal equipment type and its general characteristics

Refer to 004010 Data Element Dictionary for acceptable code values.

Segment:	**W2** Equipment Identification	
Position:	070	
Loop:	N7 Mandatory	
Level:		
Usage:	Optional	
Max Use:	1	
Purpose:	To identify equipment and the commodity being carried	
Syntax Notes:	1	If either W209 or W210 is present, then the other is required.
	2	If either W211 or W212 is present, then the other is required.
Semantic Notes:	1	Commodity code (W203) is STCC.
	2	W209 is the event date.
	3	W212 (when available) is the chassis number if W204 equals "CC".
	4	W216 indicates if equipment needs repair. A "Y" indicates equipment needs repair; an "N" indicates equipment does not need repair.
Comments:	1	W208 is to contain the proper code when an empty car is being returned per ex parte 346, sub. 8. If proper code is unknown, default to 34617.
	2	W211 (when available) is the chassis initial if W204 equals "CC". If unknown, use NONZ for chassis initial.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	W201	206	**Equipment Initial**	M AN 1/4
			Prefix or alphabetic part of an equipment unit's identifying number	
M	W202	207	**Equipment Number**	M AN 1/10
			Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	
Not Used	W203	22	**Commodity Code**	O AN 1/30
			Code describing a commodity or group of commodities	
M	W204	40	**Equipment Description Code**	M ID 2/2
			Code identifying type of equipment used for shipment	

        CN   Container
        ID   Idler Car
        RR   Rail Car
        TL   Trailer (not otherwise specified)

	Ref. Des.	Data Element	Name	Attributes
M	W205	578	**Equipment Status Code**	M ID 1/2
			Code indicating status of equipment	

        AK   Out of Service
        E   Empty
        L   Load

	Ref. Des.	Data Element	Name	Attributes
Not Used	W206	577	**Net Tons**	O N0 1/3
			Net weight in tons	
Not Used	W207	177	**Intermodal Service Code**	O ID 1/2

Code identifying the Intermodal Service Plan

Refer to 004010 Data Element Dictionary for acceptable code values.

| Not Used | W208 | 240 | **Car Service Order Code** | O | **ID 3/5** |

Code specifying car service order

Refer to 004010 Data Element Dictionary for acceptable code values.

| Not Used | W209 | 373 | **Date** | X | **DT 8/8** |

Date expressed as CCYYMMDD

| Not Used | W210 | 502 | **Type of Locomotive Maintenance Code** | X | **AN 2/2** |

Value defining locomotive maintenance schedule

| | W211 | 206 | **Equipment Initial** | X | **AN 1/4** |

Prefix or alphabetic part of an equipment unit's identifying number

| | W212 | 207 | **Equipment Number** | X | **AN 1/10** |

Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)

| | W213 | 761 | **Equipment Number Check Digit** | O | **N0 1/1** |

Number which designates the check digit applied to a piece of equipment

| Not Used | W214 | 219 | **Position** | O | **AN 1/3** |

Relative position of shipment in car, trailer, or container (mutually defined)

| Not Used | W215 | 301 | **Car Type Code** | O | **ID 1/4** |

Code specifying type of rail car or intermodal equipment type and its general characteristics

Refer to 004010 Data Element Dictionary for acceptable code values.

| Not Used | W216 | 1073 | **Yes/No Condition or Response Code** | O | **ID 1/1** |

Code indicating a Yes or No condition or response

Refer to 004010 Data Element Dictionary for acceptable code values.

Segment:	**R4** Port or Terminal			
Position:	120			
Loop:	R4 Mandatory			
Level:				
Usage:	Mandatory			
Max Use:	1			
Purpose:	Contractual or operational port or point relevant to the movement of the cargo			
Syntax Notes:	1 If either R402 or R403 is present, then the other is required.			
Semantic Notes:				
Comments:	1 R4 is required for each port to be identified.			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**R401**	**115**	**Port or Terminal Function Code**	**M ID 1/1**

Code defining function performed at the port or terminal with respect to a shipment

1	Final Port of Discharge (Operational)
5	Activity Location (Operational)
6	Origin Rail Intermodal Terminal
7	Destination Rail Intermodal Terminal
D	Port of Discharge (Operational)
E	Place of Delivery (Contractual)
I	Interim Point (Operational)
L	Port of Loading (Operational)
M	Destination (Operational)
P	Dispatching Pool (Operational)
R	Place of Receipt (Contractual)

	Ref. Des.	Data Element	Name	Attributes
	R402	**309**	**Location Qualifier**	**X ID 1/2**

Code identifying type of location

CS	Canadian SPLC
SL	U.S. SPLC

	Ref. Des.	Data Element	Name	Attributes
	R403	**310**	**Location Identifier**	**X AN 1/30**

Code which identifies a specific location

	Ref. Des.	Data Element	Name	Attributes
	R404	**114**	**Port Name**	**O AN 2/24**

Free-form name for the place at which an offshore carrier originates or terminates (by transshipment or otherwise) its actual ocean carriage of property

	Ref. Des.	Data Element	Name	Attributes
Not Used	**R405**	**26**	**Country Code**	**O ID 2/3**

Code identifying the country

Refer to 004010 Data Element Dictionary for acceptable code values.

	Ref. Des.	Data Element	Name	Attributes
Not Used	**R406**	**174**	**Terminal Name**	**O AN 2/30**

Free-form field for terminal name

| **Not Used** | **R407** | **113** | **Pier Number** | **O** | **AN 1/4** |

Identifying number for the pier

| **Not Used** | **R408** | **156** | **State or Province Code** | **O** | **ID 2/2** |

Code (Standard State/Province) as defined by appropriate government agency

Refer to 004010 Data Element Dictionary for acceptable code values.

Segment:	**H3** Special Handling Instructions		
Position:	140		
Loop:	N7	Mandatory	
Level:			
Usage:	Optional		
Max Use:	6		
Purpose:	To specify special handling instructions in coded or free-form format		
Syntax Notes:	1	Only one of H301 or H302 may be present.	
Semantic Notes:			
Comments:			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	H301	**152**	**Special Handling Code**	**X**	**ID 2/3**
			Code specifying special transportation handling instructions		
			DM Domestic		
			HM Endorsed as Hazardous Material		
			IP Import Shipment		
			XP Export		
Not Used	**H302**	**153**	**Special Handling Description**	**X**	**AN 2/30**
			Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate		
Not Used	**H303**	**241**	**Protective Service Code**	**O**	**ID 1/4**
			Code specifying perishable protective service- rail carriers only		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	**H304**	**242**	**Vent Instruction Code**	**O**	**ID 1/7**
			Code specifying vent instructions		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	**H305**	**257**	**Tariff Application Code**	**O**	**ID 1/1**
			Code indicating to which traffic a tariff applies		
			Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment:	**N1** Name	
Position:	150	
Loop:	N1 Optional	
Level:		
Usage:	Optional	
Max Use:	1	
Purpose:	To identify a party by type of organization, name, and code	
Syntax Notes:	1 At least one of N102 or N103 is required.	
	2 If either N103 or N104 is present, then the other is required.	
Semantic Notes:		
Comments:	1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.	
	2 N105 and N106 further define the type of entity in N101.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	N101	98	**Entity Identifier Code**	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			CN Consignee	
			N1 Notify Party no. 1	
			SF Ship From	
			SH Shipper	
Must Use	N102	93	**Name**	X AN 1/60
			Free-form name	
Not Used	N103	66	**Identification Code Qualifier**	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	N104	67	**Identification Code**	X AN 2/80
			Code identifying a party or other code	
Not Used	N105	706	**Entity Relationship Code**	O ID 2/2
			Code describing entity relationship	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	N106	98	**Entity Identifier Code**	O ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment:	**N4** Geographic Location	
Position:	156	
Loop:	N1	Optional
Level:		
Usage:	Optional	
Max Use:	1	
Purpose:	To specify the geographic place of the named party	
Syntax Notes:	1	If N406 is present, then N405 is required.
Semantic Notes:		
Comments:	1	A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
	2	N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**N401**	**19**	**City Name**	**O**	**AN 2/30**
			Free-form text for city name		
	N402	**156**	**State or Province Code**	**O**	**ID 2/2**
			Code (Standard State/Province) as defined by appropriate government agency		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
	N403	**116**	**Postal Code**	**O**	**ID 3/15**
			Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
	N404	**26**	**Country Code**	**O**	**ID 2/3**
			Code identifying the country		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
Must Use	**N405**	**309**	**Location Qualifier**	**X**	**ID 1/2**
			Code identifying type of location		

      CS   Canadian SPLC
      SL   U.S. SPLC

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**N406**	**310**	**Location Identifier**	**O**	**AN 1/30**
			Code which identifies a specific location		

	Segment:	**N9** Reference Identification
	Position:	170
	Loop:	N7 Mandatory
	Level:	
	Usage:	Optional (Must Use)
	Max Use:	10
	Purpose:	To transmit identifying information as specified by the Reference Identification Qualifier
	Syntax Notes:	1 At least one of N902 or N903 is required.
		2 If N906 is present, then N905 is required.
		3 If either C04003 or C04004 is present, then the other is required.
		4 If either C04005 or C04006 is present, then the other is required.
	Semantic Notes:	1 N906 reflects the time zone which the time reflects.
		2 N907 contains data relating to the value cited in N902.
	Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	N901	128	**Reference Identification Qualifier**	M ID 2/3

Code qualifying the Reference Identification

    BL   Government Bill of Lading

    BM   Bill of Lading Number

    WY   Waybill Number

	Ref. Des.	Data Element	Name	Attributes
	N902	127	**Reference Identification**	X AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

	Ref. Des.	Data Element	Name	Attributes
Not Used	N903	369	**Free-form Description**	X AN 1/45

Free-form descriptive text

	Ref. Des.	Data Element	Name	Attributes
	N904	373	**Date**	O DT 8/8

Date expressed as CCYYMMDD

	Ref. Des.	Data Element	Name	Attributes
	N905	337	**Time**	X TM 4/8

Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

	Ref. Des.	Data Element	Name	Attributes
	N906	623	**Time Code**	O ID 2/2

Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

    ET   Eastern Time

Not Used   **N907**   **C040**   **Reference Identifier**   **O**

To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier

Not Used   **C04001**   **128**   **Reference Identification Qualifier**   **M ID 2/3**

Code qualifying the Reference Identification

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used   **C04002**   **127**   **Reference Identification**   **M AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Not Used   **C04003**   **128**   **Reference Identification Qualifier**   **X ID 2/3**

Code qualifying the Reference Identification

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used   **C04004**   **127**   **Reference Identification**   **X AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Not Used   **C04005**   **128**   **Reference Identification Qualifier**   **X ID 2/3**

Code qualifying the Reference Identification

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used   **C04006**   **127**   **Reference Identification**   **X AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Segment:	**L0** Line Item - Quantity and Weight
Position:	180
Loop:	L0 Optional
Level:	
Usage:	Optional
Max Use:	1
Purpose:	To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" data
Syntax Notes:	1 If either L002 or L003 is present, then the other is required.
	2 If either L004 or L005 is present, then the other is required.
	3 If either L006 or L007 is present, then the other is required.
	4 If either L008 or L009 is present, then the other is required.
	5 If L011 is present, then L004 is required.
	6 If either L013 or L015 is present, then the other is required.
Semantic Notes:	1 L008 is the number of handling units of the line item tendered to the carrier.
	2 L013 can only be used if the code in L009 is PLT, SKD, or SLP.
	3 L015 designates whether the carrier will be required to verify the number of units contained on a pallet, slip sheet or skid. Code "Y" indicates that the carrier will be required to verify. Code "N" indicates that the carrier will not be required to verify.
Comments:	1 L013 is used to convey the total number of boxes, cartons, or pieces contained on a pallet, skid, or slip sheet for the line item.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
L001	213	**Lading Line Item Number**	O	N0 1/3
		Sequential line number for a lading item		
L002	220	**Billed/Rated-as Quantity**	X	R 1/11
		Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81		
L003	221	**Billed/Rated-as Qualifier**	X	ID 2/2
		Code identifying the type of quantity or value on which the rate or item pricing is based		
		Refer to 004010 Data Element Dictionary for acceptable code values.		
L004	81	**Weight**	X	R 1/10
		Numeric value of weight		
L005	187	**Weight Qualifier**	X	ID 1/2
		Code defining the type of weight		
		N Actual Net Weight		
L006	183	**Volume**	X	R 1/8
		Value of volumetric measure		
L007	184	**Volume Unit Qualifier**	X	ID 1/1

Code identifying the volume unit

E	Cubic Feet
S	Measurement Ton
X	Cubic Meters

L008   **80**   **Lading Quantity**   **X** **N0 1/7**

Number of units (pieces) of the lading commodity

L009   **211**   **Packaging Form Code**   **X** **ID 3/3**

Code for packaging form of the lading quantity

PLT	Pallet
SKD	Skid

L010   **458**   **Dunnage Description**   **O** **AN 2/25**

Material used to protect lading

L011   **188**   **Weight Unit Code**   **O** **ID 1/1**

Code specifying the weight unit

K	Kilograms
L	Pounds

L012   **56**   **Type of Service Code**   **O** **ID 2/2**

Code specifying extent of transportation service requested

Refer to 004010 Data Element Dictionary for acceptable code values.

L013   **380**   **Quantity**   **X** **R 1/15**

Numeric value of quantity

L014   **211**   **Packaging Form Code**   **O** **ID 3/3**

Code for packaging form of the lading quantity

Refer to 004010 Data Element Dictionary for acceptable code values.

L015   **1073**   **Yes/No Condition or Response Code**   **X** **ID 1/1**

Code indicating a Yes or No condition or response

N	No
Y	Yes

Segment:	**L5** Description, Marks and Numbers	
Position:	190	
Loop:	L0 Optional	
Level:		
Usage:	Optional	
Max Use:	1	
Purpose:	To specify the line item in terms of description, quantity, packaging, and marks and numbers	
Syntax Notes:	**1**	If either L503 or L504 is present, then the other is required.
	2	If L507 is present, then L506 is required.
	3	If either L508 or L509 is present, then the other is required.
Semantic Notes:		
Comments:	**1**	L502 may be used to send quantity information as part of the product description.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
L501	**213**	**Lading Line Item Number**	**O N0 1/3**
		Sequential line number for a lading item	
L502	**79**	**Lading Description**	**O AN 1/50**
		Description of an item as required for rating and billing purposes	
L503	**22**	**Commodity Code**	**X AN 1/30**
		Code describing a commodity or group of commodities	
L504	**23**	**Commodity Code Qualifier**	**X ID 1/1**
		Code identifying the commodity coding system used for Commodity Code	
		T Standard Transportation Commodity Code (STCC)	
L505	**103**	**Packaging Code**	**O AN 3/5**
		Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
L506	**87**	**Marks and Numbers**	**X AN 1/48**
		Marks and numbers used to identify a shipment or parts of a shipment	
L507	**88**	**Marks and Numbers Qualifier**	**O ID 1/2**
		Code specifying the application or source of Marks and Numbers (87)	
		ZZ Mutually Defined	
L508	**23**	**Commodity Code Qualifier**	**X ID 1/1**
		Code identifying the commodity coding system used for Commodity Code	
		T Standard Transportation Commodity Code (STCC)	
L509	**22**	**Commodity Code**	**X AN 1/30**
		Code describing a commodity or group of commodities	

L510   **595**   **Compartment ID Code**   **O   ID 1/1**

Code identifying the compartment in a compartmentalized tank car

1	Brake End
2	2nd from Brake End
3	3rd from Brake End
4	4th from Brake End
5	5th from Brake End
6	6th from Brake End

Segment:	**H1** Hazardous Material				
Position:	200				
Loop:	L0	Optional			
Level:					
Usage:	Optional				
Max Use:	3				
Purpose:	To specify information relative to hazardous material				
Syntax Notes:	1	If either H107 or H108 is present, then the other is required.			
Semantic Notes:					
Comments:	1	This segment is required when the shipment contains hazardous material.			
	2	H107 is the lowest temperature for hazardous materials.			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	H101	62	**Hazardous Material Code**	M	AN 4/10
			Code relating to hazardous material code qualifier for regulated hazardous materials		
	H102	209	**Hazardous Material Class Code**	O	AN 1/4
			Code specifying the kind of hazard for a material		
	H103	208	**Hazardous Material Code Qualifier**	O	ID 1/1
			Code which qualifies the Hazardous Material Class Code (209)		
			I Intergovernmental Maritime Organization (IMO) Code		
	H104	64	**Hazardous Material Description**	O	AN 2/30
			Material name, special instructions, and phone number if any		
	H105	63	**Hazardous Material Contact**	O	AN 1/24
			Phone number and name of person or department to contact in case of emergency		
	H106	200	**Hazardous Materials Page**	O	AN 1/6
			The United Nations page number as required for the international transport of hazardous materials		
	H107	77	**Flashpoint Temperature**	X	N 1/3
			The flashpoint temperature for hazardous material		
	H108	355	**Unit or Basis for Measurement Code**	X	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			CE Centigrade, Celsius		
			FA Fahrenheit		
	H109	254	**Packing Group Code**	O	ID 1/3
			Code indicating degree of danger in terms of Roman number I, II or III		
			Refer to 004010 Data Element Dictionary for acceptable code values.		

	Segment:	**SE** Transaction Set Trailer
	Position:	220
	Loop:	
	Level:	
	Usage:	Mandatory
	Max Use:	1
	Purpose:	To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
	Syntax Notes:	
	Semantic Notes:	
	Comments:	**1** SE is the last segment of each transaction set.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SE01**	**96**	**Number of Included Segments**	**M N0 1/10**
			Total number of segments included in a transaction set including ST and SE segments	
M	**SE02**	**329**	**Transaction Set Control Number**	**M AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	